Overview of National ADUS Activities

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TRB – January 12, 2003

Data Archiving

ADUS

Agenda

- Highlights of 2003 Activities
- Operational Test
- Operational Test Evaluation
- Data Quality Workshops
- Data Quality Measurement Research

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ITS Objectives for ADUS

- Congestion Management
  - Mobility Monitoring
  - Assessment
  - Planning
- Safety
  - Incident Management
  - Emergency Management

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Operational Test

- Cooperative Agreement
  - Work with a TMC or multiple TMCs
  - Focus on ATMS and ATIS
- Develop methodology for enhancing TMC operations through applied archived data
- Establish an algorithm that can be applied to other TMCs

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Objective of the FOT

- Exploit Archiving Value to Operations
  - Reusability of ITS data
  - Critical for performance measurement
  - Potential for proactive management

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Operational Test Scope

- Establish Concept of Operations for Managing Archived Data
- Devise Operational Model(s)
- Create Algorithm to Execute Operational Models
- Apply Algorithm to ATMS and ATIS functions
- Analyze the Performance of the TMC
- Identify Recommended Operational Practices and Procedures
- Cooperation with National Evaluator

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Cooperative Agreement with Virginia DOT

- VDOT has created a foundation that will fully support this effort
- VDOT sees this project as a critical piece in its state, as well as the federal, ITS program
- VDOT is committed to working with FHWA to accomplish two goals:
  - Create an ADMS that improves travel in Virginia
  - Create guidance materials to help other transportation agencies learn from VDOT's ADMS experience

Operational Test Evaluation

- Determine how the operational performance of the TMC changes as the archived data are applied
  - Project Activity
  - National Evaluation perspective
- Post Operational Test review
  - 21 month evaluation vs 18 month operational test

Data Quality Workshops

- White Papers
  - State of the Practice for Traffic Data Quality
  - Advances in Traffic Data Collection and Management
  - Defining and Measuring Traffic Data Quality
  - Posting on ITS Electronic Document Library *(13766, 13767, 13768)*

White Paper Validation

- Regional Workshops
  - Ohio – March 11
  - Utah – March 13
- Potential ITS America Workshop on Data Quality
  - National level attention
  - Synthesize discussion of regional workshops

Data Quality Measurement Tool

- Scope yet undefined
- Establish metrics for one or more functional areas
  - ISO standards exist for air quality and water quality measurements
    - ISO 7168-1&2
    - ISO 8689-1&2

Resources

- www.its.dot.gov
  - Resource guide
  - ITS Electronic Document Library
- Operations/ITS HelpLine
  - 866.367.7487
- James.Pol@fhwa.dot.gov
  - 202.366.4374

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